

ABSTRACT

5 **[00036]** A kinematic electrode mount is provided for an ion implanter in
which an electrode insert member having an electrode body portion which
defines an aperture, is inserted into an electrode support frame. In one
embodiment, a first kinematic alignment pin of the insert member engages a
first, groove-shaped kinematic alignment surface of the electrode support
frame to align the first alignment pin in two orthogonal directions relative to
the electrode support frame. In addition, a second kinematic alignment pin of
10 the insert member engages a second kinematic alignment surface of the
electrode support frame to align the insert member in a rotational orientation
relative to the electrode support frame. A plurality of flanges of the insert
member engage the electrode support frame to retain the insert member in
the aligned position and to electrically couple the electrode insert member to
15 the electrode support frame. A spring positioned between the electrode
insert member and the electrode support frame biases the electrode insert
member in the aligned and retained position relative to the electrode support
frame.